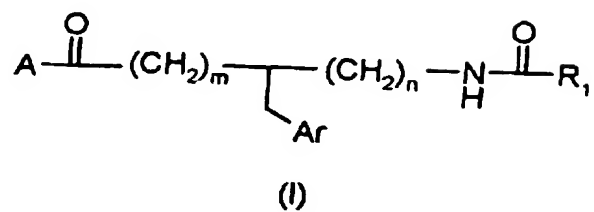


Amendments to the Claims

Please amend the listing of claims as follows:

- (Original) A compound of structural formula (I):

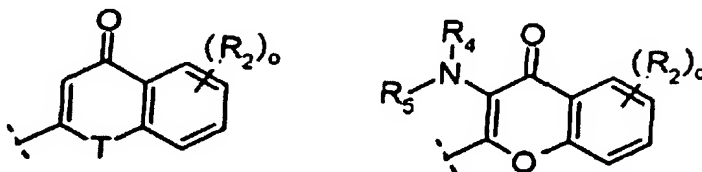


or a pharmaceutically acceptable salt or a solvate thereof, wherein

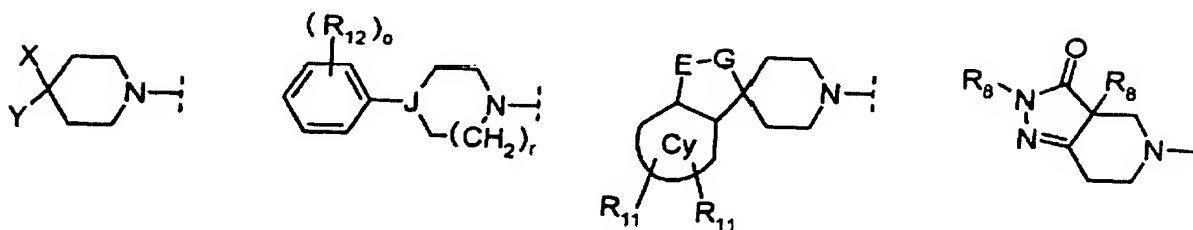
Ar is:

aryl or heteroaryl which may both be substituted;

R₁ is:



A is:



R₂ is independently:

hydrogen,
halo,
alkyl,

haloalkyl,
hydroxy,
alkoxy,
S-alkyl,
SO₂-alkyl,
O-alkenyl,
S-alkenyl,
NR₁₄C(O)R₁₄,
NR₁₄SO₂R₁₄,
N(R₁₄)₂,
(D)-cycloalkyl,
(D)-aryl,
(D)-heteroaryl,
(D)-heterocyclyl (wherein heterocyclyl excludes a heterocyclyl containing a single nitrogen), and

wherein aryl, heteroaryl, heterocyclyl, alkyl and cycloalkyl are substituted or unsubstituted, and two adjacent R₂ may form a 4- to 7-membered ring;

R₄ and R₅ are each independently:

hydrogen,
alkyl or
(D)-cycloalkyl, or

R₄ and R₅ together with the nitrogen to which they are attached form a 5- to 8-membered ring,

wherein alkyl and cycloalkyl are unsubstituted or substituted;

R₈ is independently:

hydrogen,
alkyl,
(D)-aryl or
(D)-cycloalkyl;

R₉ is independently:

hydrogen,
alkyl,
(D)-aryl,
(D)-heteroaryl or
(D)-cycloalkyl;

R₁₀ is independently:

R₉,
(D)-heterocyclyl,
(D)-N(Y)₂,
(D)-NH-heteroaryl or
(D)-NH-heterocyclyl,

wherein aryl, heteroaryl, alkyl, D, cycloalkyl and heterocyclyl are substituted or unsubstituted, or
two R₁₀ groups together with the atoms to which they are attached form a 5- to 8-membered mono- or bi-cyclic ring system;

R₁₁ is:

hydrogen,
halo,
alkyl,
alkoxy,
C≡N,
CF₃ or
OCF₃;

R₁₂ is independently:

hydrogen,
hydroxy,
cyano,
nitro,
halo,
alkyl,

alkoxy,
 haloalkyl,
 (D)-C(O)R₁₄,
 (D)-C(O)OR₁₄,
 (D)-C(O)SR₁₄,
 (D)-C(O)-heteroaryl,
 (D)-C(O)-heterocyclyl,
 (D)-C(O)N(R₁₄)₂,
 (D)-N(R₁₄)₂,
 (D)-NR₁₄COR₁₄,
 (D)-NR₁₄CON(R₁₄)₂,
 (D)-NR₁₄C(O)OR₁₄,
 (D)-NR₁₄C(R₁₄)=N(R₁₄),
 (D)-NR₁₄C(=NR₁₄)N(R₁₄)₂,
 (D)-NR₁₄SO₂R₁₄,
 (D)-NR₁₄SO₂N(R₁₄)₂,
 (D)-NR₁₄(D)-heterocyclyl,
 (D)-NR₁₄(D)-heteroaryl,
 (D)-OR₁₄,
 OSO₂R₁₄,
 (D)-[O]_q(cycloalkyl),
 (D)-[O]_q(D)aryl,
 (D)-[O]_q(D)-heteroaryl,
 (D)-[O]_q(D)-heterocyclyl (wherein heterocyclyl excludes a heterocyclyl
 containing a single nitrogen when q=1),
 (D)-SR₁₄,
 (D)-SOR₁₄,
 (D)-SO₂R₁₄ or
 (D)-SO₂N(R₁₄),
 wherein alkyl, alkoxy, cycloalkyl, aryl, heterocyclyl and heteroaryl are
 substituted or unsubstituted;

R₁₄ is independently:

hydrogen,

alkyl,
haloalkyl,
(D)-cycloalkyl,
(D)-phenyl,
(D)-naphthyl,
(D)-heteroaryl,
(D)-heterocyclyl (wherein heterocyclyl excludes a heterocyclyl containing a single nitrogen), and

wherein phenyl, naphthyl, heteroaryl, heterocyclyl, alkyl and cycloalkyl are substituted or unsubstituted;

X is:

alkyl,
(D)-cycloalkyl,
(D)-aryl,
(D)-heteroaryl,
(D)-heterocyclyl,
(D)-C \equiv N,
(D)-CON(R₉R₉),
(D)-CO₂R₉,
(D)-COR₉,
(D)-NR₉C(O)R₉,
(D)-NR₉CO₂R₉,
(D)-NR₉C(O)N(R₉)₂,
(D)-NR₉SO₂R₉,
(D)-S(O)_pR₉,
(D)-SO₂N(R₉)(R₉),
(D)-OR₉,
(D)-OC(O)R₉,
(D)-OC(O)OR₉,
(D)-OC(O)N(R₉)₂,
(D)-N(R₉)(R₉) or
(D)-NR₉SO₂N(R₉)(R₉),

wherein aryl, heteroaryl, alkyl, D, cycloalkyl and heterocyclyl are unsubstituted or substituted;

Y is:

hydrogen,
alkyl,
(D)-cycloalkyl,
(D)-aryl,
(D)-heterocyclyl or
(D)-heteroaryl,

wherein aryl, heteroaryl, alkyl, D and cycloalkyl are unsubstituted or substituted;

Cy is benzene, pyridine or cyclohexane;

D is a bond or alkylene;

E is CHCO_2Y , $\text{CHC}(\text{O})\text{N}(\text{Y})_2$, $\text{NSO}_2\text{R}_{10}$, $\text{CHN}(\text{Y})\text{COR}_{10}$, $\text{CHN}(\text{Y})\text{SO}_2\text{R}_{10}$, CHCH_2OY or $\text{CHCH}_2\text{heteroaryl}$;

G is D, CH-alkyl, O, C=O or SO_2 , with the proviso that when G is O, the ring atom E is carbon;

J is N or CH;

T is O;

n is 0 - 2;

m is 0 - 2;

o is 0 - 3;

p is 0 - 2;

q is 0 or 1;

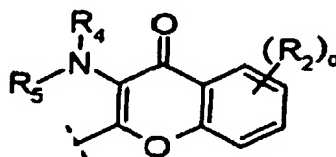
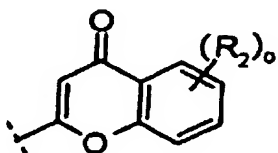
r is 1 or 2.

2. (Original) The compound of claim 1, wherein

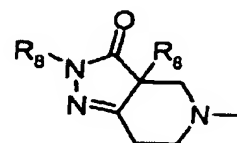
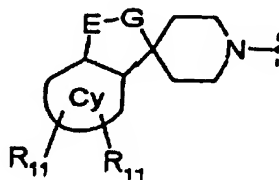
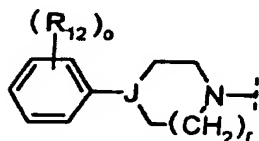
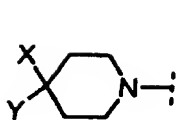
Ar is:

aryl which may be substituted with one to three substituents independently selected from the group consisting of cyano, nitro, perfluoroalkoxy, halo, alkyl, (D)-cycloalkyl, alkoxy and/or haloalkyl;

R₁ is:



A is:



R₂ is independently:

hydrogen,

hydroxy,

halo,

alkyl,

alkoxy,

S-alkyl,

SO₂-alkyl,

O-alkenyl,

S-alkenyl,

haloalkyl or

(D)-cycloalkyl;

R₄ and R₅ are each independently:

hydrogen,
alkyl or
cycloalkyl, or

R₄ and R₅ together with the nitrogen to which they are attached form a 5- to 7-membered ring which may contain an additional heteroatom selected from O, S and NR₆;

R₆ is independently:

hydrogen,
alkyl,
C(O)alkyl,
(D)-aryl or
(D)-cycloalkyl;

R₈ is independently:

hydrogen,
alkyl or
(D)-aryl;

R₉ is independently:

hydrogen,
alkyl or
(D)-cycloalkyl;

R₁₀ is R₉;

R₁₁ is:

hydrogen,
halo,
alkyl,
alkoxy or
C≡N;

R₁₂ is independently:

hydrogen,
hydroxy,
cyano,
nitro,
halo,
alkyl,
alkoxy,
haloalkyl,
(D)-C(O)-heterocyclyl,
(D)-C(O)N(R₁₄)₂,
(D)-N(R₁₄)₂,
(D)-NR₁₄COR₁₄,
(D)-NR₁₄CON(R₁₄)₂,
(D)-NR₁₄C(O)OR₁₄,
(D)-NR₁₄C(R₁₄)=N(R₁₄),
(D)-NR₁₄C(=NR₁₄)N(R₁₄)₂,
(D)-NR₁₄SO₂R₁₄ or
(D)-NR₁₄SO₂N(R₁₄)₂;

R₁₄ is independently:

hydrogen,
halo,
alkyl,
(D)-cycloalkyl,
alkoxy or
phenyl;

X is:

alkyl,
(D)-cycloalkyl,
(D)-aryl,
(D)-heteroaryl,
(D)-heterocyclyl,

(D)-NHC(O)R₉,
 (D)-CO₂R₉ or
 (D)-CON(R₉R_g);

Y is:

hydrogen,
 alkyl,
 (D)-cycloalkyl,
 (D)-aryl,
 (D)-heterocyclyl or
 (D)-heteroaryl;

Cy is benzene or pyridine;

D is a bond or C₁ - C₄-alkylene;

E is NSO₂R₁₀ CHN(Y)COR₁₀ or CHN(Y)SO₂R₁₀;

G is D or CH-alkyl;

J is N or CH;

n is 0 or 1;

m is 0 or 1;

o is 0, 1 or 2;

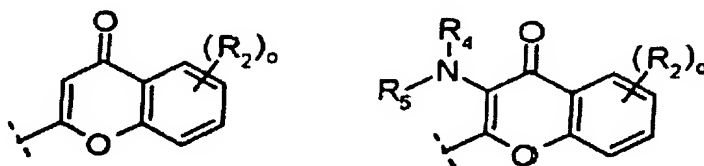
r is 1.

3. (Currently Amended) The compound of claim 1-~~or~~ 2, wherein

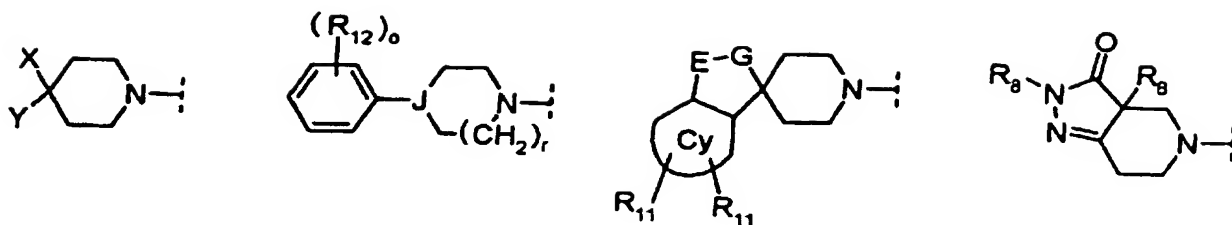
Ar is:

phenyl or naphthyl which may be substituted with one or two substituents independently selected from the group consisting of halo, alkyl, alkoxy and/or haloalkyl;

R₁ is:



A is:



R_2 is independently:

hydrogen,
hydroxy,
alkoxy,
S-alkyl,
SO₂-alkyl,
O-alkenyl,
S-alkenyl,
halo or
alkyl;

R_4 and R_5 are each independently:

hydrogen or
alkyl, or

R_4 and R_5 together with the nitrogen to which they are attached form a 5- to 6-membered ring optionally containing an additional oxygen atom;

R_6 is hydrogen;

R_8 is independently:

alkyl or
(D)-aryl;

R₉ is alkyl;

R₁₀ is R₉;

R₁₁ is:

hydrogen,
halo and
C₁ - C₄-alkyl;

R₁₂ is independently:

cyano,
nitro,
halo,
alkyl,
(D)-C(O)-heterocyclyl,
(D)-N(R₁₄)₂,
(D)-NR₁₄COR₁₄,
(D)-NR₁₄CON(R₁₄)₂,
(D)-NR₁₄C(O)OR₁₄ or
(D)-NR₁₄SO₂R₁₄;

R₁₄ is independently:

hydrogen,
halo,
alkyl,
alkoxy or
phenyl;

X is:

Alkyl,
(D)-cycloalkyl,
(D)-heterocyclyl,
(D)-NHC(O)R₉ or
(D)-CON(R₉R₉);

Y is:

hydrogen,
alkyl,
(D)-cycloalkyl or
(D)-heterocyclyl;

Cy is benzene;

D is a bond or CH₂;

E is NSO₂R₁₀;

G is D;

J is N or CH;

n is 0;

m is 0;

o is 0 or 1;

p is 0, 1 or 2;

q is 0 or 1 ;

r is 1.

4. (Currently Amended) ~~The compound of any of claims 1 to 3 for use as a~~
A medicament comprising the compound of claim 1.

5. (Currently Amended) ~~Use of the compound of any of claims 1 to 3 for the~~
~~preparation of a medicament for the treatment or prevention of~~ A method of treating or
preventing disorders, diseases or conditions responsive to the modulation of the
melanocortin-4 receptor in a mammal, where modulation means activation in the case of
MC4-R agonists or inactivation in the case of MC4-R antagonists, the method comprising
administering an effective amount of a compound of claim 1.

6. (Currently Amended) ~~Use of MC4-R antagonists according to claims 5 for the~~
~~preparation of a medicament for the treatment or prevention of cancer cachexia:~~ A method of
treating or preventing cancer cachexia, the method comprising administering to a human or
mammal an effective amount of the MC4-R antagonists according to claim 5.

7. (Currently Amended) ~~Use of MC4-R antagonists according to claims 5 for the preparation of a medicament for the treatment or prevention of muscle wasting.~~ A method of treating or preventing muscle wasting, the method comprising administering to a human or mammal an effective amount of the MC4-R antagonists according to claim 5.

8. (Currently Amended) ~~Use of MC4-R antagonists according to claims 5 for the preparation of a medicament for the treatment or prevention of anorexia.~~ A method of treating or preventing anorexia, the method comprising administering to a human or mammal an effective amount of the MC4-R antagonists according to claim 5.

9. (Currently Amended) ~~Use of MC4-R antagonists according to claims 5 for the preparation of a medicament for the treatment or prevention of anxiety and/or depression.~~ A method of treating or preventing anxiety and/or depression, the method comprising administering to a human or mammal an effective amount of the MC4-R antagonists according to claim 5.

10. (Currently Amended) ~~Use of MC4-R antagonists according to claims 5 for the preparation of a medicament for the treatment or prevention of obesity.~~ A method of treating or preventing obesity, the method comprising administering to a human or mammal an effective amount of the MC4-R antagonists according to claim 5.

11. (Currently Amended) ~~Use of MC4-R antagonists according to claims 5 for the preparation of a medicament for the treatment or prevention of diabetes mellitus.~~ A method of treating or preventing diabetes mellitus, the method comprising administering to a human or mammal an effective amount of the MC4-R antagonists according to claim 5.

12. (Currently Amended) ~~Use of MC4-R antagonists according to claims 5 for the preparation of a medicament for the treatment or prevention of male or female sexual dysfunction.~~ A method of treating or preventing male or female sexual dysfunction, the method comprising administering to a human or mammal an effective amount of the MC4-R antagonists according to claim 5.

13. (Currently Amended) ~~Use of MC4-R antagonists according to claims 5 for the preparation of a medicament for the treatment or prevention of erectile dysfunction.~~
A method of treating or preventing erectile dysfunction, the method comprising administering to a human or mammal an effective amount of the MC4-R antagonists according to claim 5.

14. (Currently Amended) A pharmaceutical composition which comprises a compound of ~~any of claims 1 to 3~~ claim 1 and a pharmaceutically acceptable carrier.